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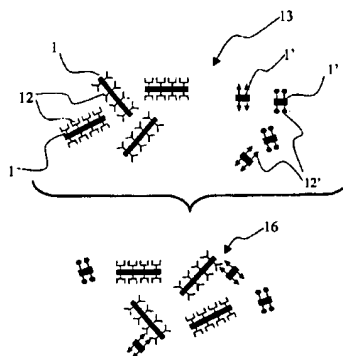
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(54) Title: SYSTEM AND METHOD FOR SOLUTION BASED MULTIPARAMETER ANALYSIS OF ANALYTES



(57) Abstract: There is described a system for multiparameter analysis of analytes. The system comprises: 1) primary supports (1) with a largest dimension (3) of 500  $\mu\text{m}$  or less suspended in use in a fluid solution; 2) each primary support (1) comprises an identification means (2) for identification thereof; 3) at least one primary analyte (12) is bound to each primary support (1); 4) a secondary analyte (12') is suspended in use in the fluid solution; and 5) a measuring means (25) is arranged in communication with the fluid solution for monitoring interaction between the primary analyte (12) and secondary analyte (12'). The system is distinguished in that: 6) secondary supports (1') with a largest dimension at the most the same size as the largest dimension (3) of the primary supports (1) are suspended in use in the fluid solution; 7) each secondary support (1') comprises an identification means (2') for identification thereof; 8) at least one secondary analyte (12') is bound to each of the secondary supports (1'); and 9) the measuring means (25) is arranged to detect any post-reaction interaction between one or more primary analyte (12) and one or more secondary analyte (12') by detecting the identification means (2, 2') of the primary and secondary supports (1, 1') attached thereto. There is also described a method of multiparameter analysis of analytes using the system.



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